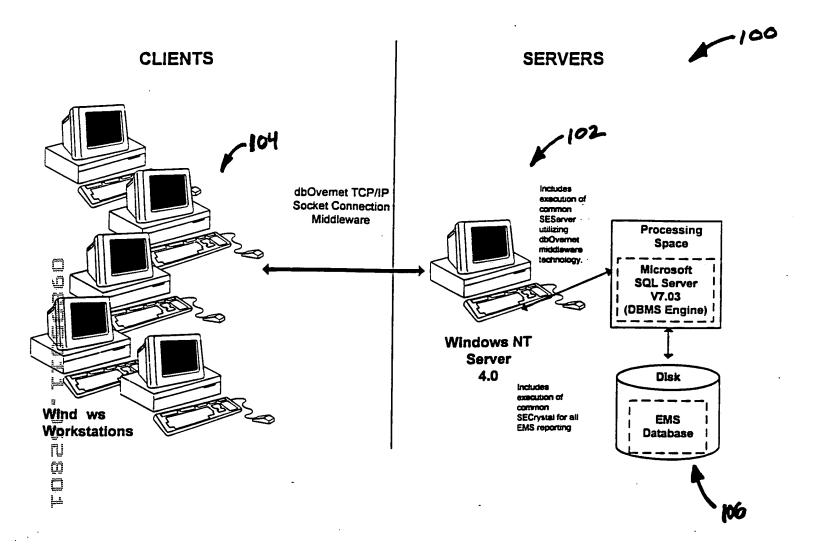


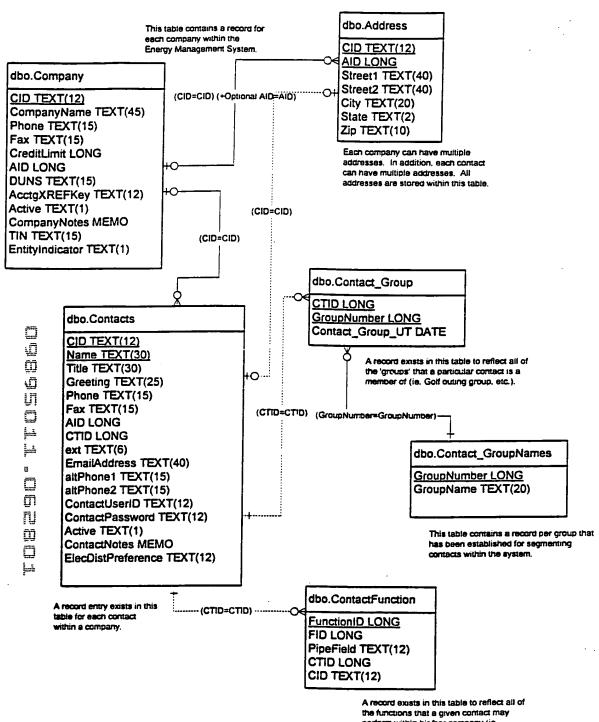
FIG. 1



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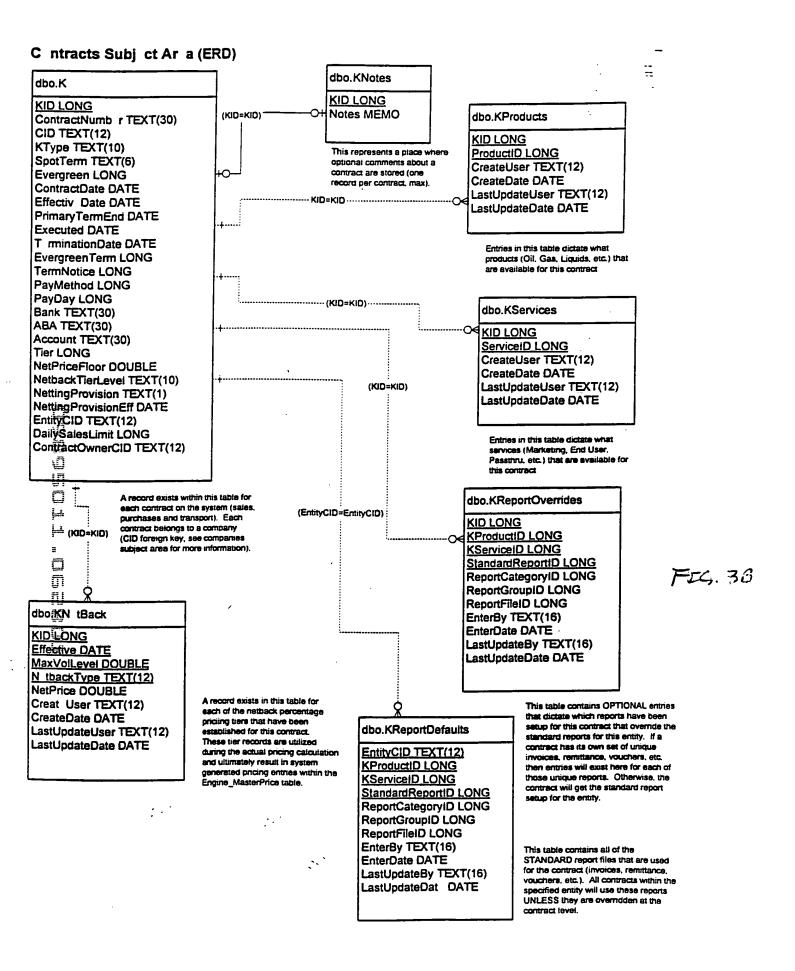
FIG. 2

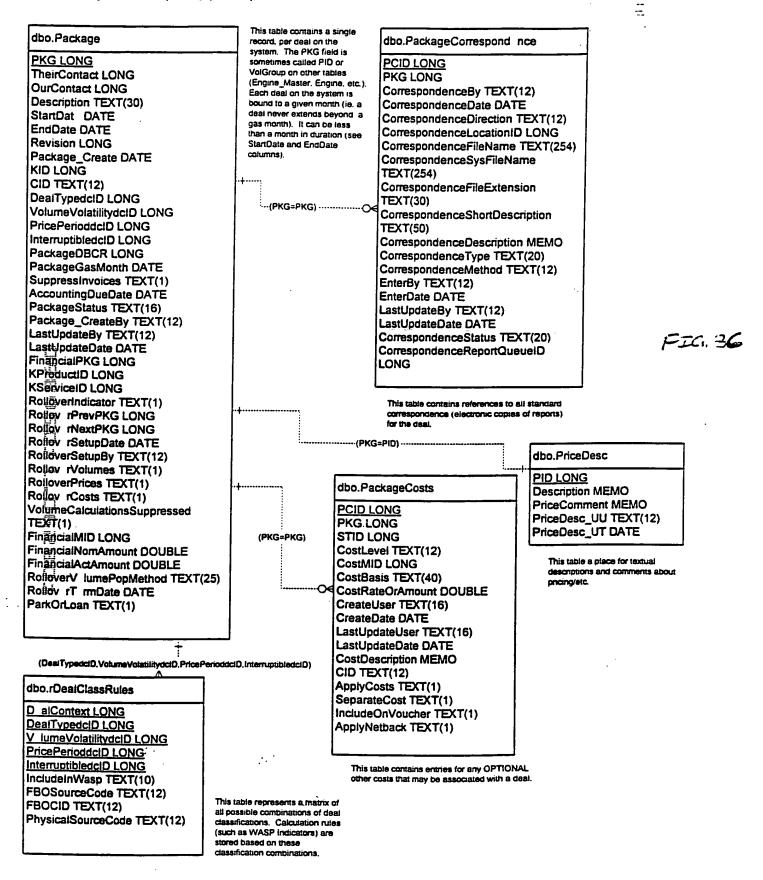
Compani s Subject Area (ERD)



perform within his/her company (ie. accounting, production, etc.).

FIG. 3A





LastUpdat Date DATE

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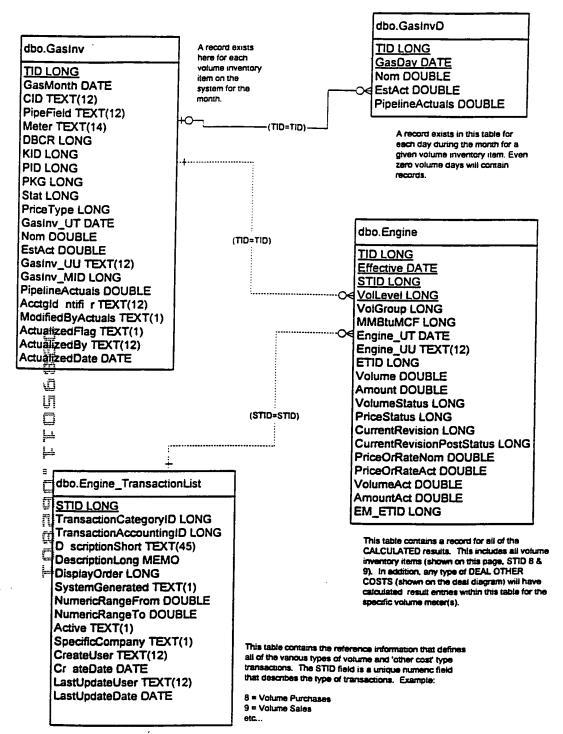
Each individual price component for a

given deal effective date is stored here. A set of prices for Noms and Actuals are stored.

FIG. 3D

DescriptionLong MEMO CreateUser TEXT(12) CreateDate DATE LastUpdateUser TEXT(12) LastUpdateDate DATE PriceEntryType TEXT(12) OperandEntryType TEXT(12) Active TEXT(1) NumericRangeFrom DOUBLE NumericRangeTo DOUBLE DisplayOrder LONG SystemGenerated TEXT(1)

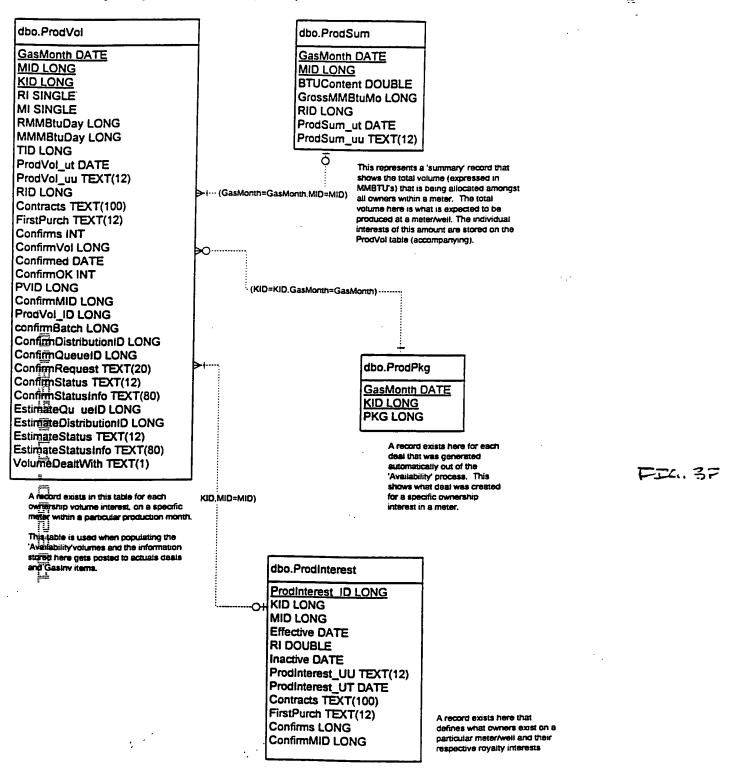
Each price entry associated with a deal contains detail information about its minimum value, maximum value, whether or not it is system generated, etc. These entries are stored in this table.



Rules for the population and entry of these types of costs are defined here. The 'Other Cost' information setup for a deal also utilizes this information.

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Gas Inventory Subj ct Ar a (ERD) (2 f 2)



Operati nal Subject Ar a - 1 of 4 (ERD)

dbo.PrinterDef

PrinterNumber LONG
DisplayName TEXT(80)
Serv rPrinterName TEXT(80)
InternalPrinter TEXT(1)

All printers defined in the system are stored in this table.

dbo.ExceptionCategories

ExceptionType TEXT(12)
ExceptionNo LONG
ExceptionShort TEXT(45)
ExceptionLong MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
ExceptionOrder LONG

This table contains record entries for all of the possible exception reason categories defined within the system. These reasons are based on the type of exception that occurs ('Dear', 'Pricing', etc.).

ApplicationMessag ID LONG
ApplicationMessageDate DATE
ApplicationMessageText TEXT(255)

dbo.ApplicationMessages

This table contains application messages that normally only print to the server console (for example when a calculation is running the messages are written here.

dbo.LogTable

LogEntry LONG LogDateTime DATE LogInfo TEXT(254) This table is used primarily for debugging purposes and is not utilized byany screen or reporting process.

dbo.ExceptionList

(GasMonth=GasMonth)

ExceptionListID LONG
ExceptionType TEXT(12)
ExceptionKey LONG
ExceptionDate DATE
ExceptionSequence LONG
ExceptionEvent TEXT(45)
ExceptionNo LONG
ExceptionNo LONG
ExceptionComments MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateOate DATE

This table contains the ectual exception event entries. The ExceptionKey and sequence columns associate the exception to the entity based on type (ie. PKGID would be the key for ExceptionType = 'DEAL').

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dbo.rGasMonth

o N

GasMonth DATE
CurrentStatus TEXT(20)
CurrentSequence LONG
Cr ateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
LockedUser TEXT(12)
LockedDate DATE

One record exists in this table for every production month in the system. In addition, this table contains the CURRENT status field ('Availability', 'Sales', étc.).

dbo.rGasMonthStatus

GasMonth DATE
CurrentSequence LONG
Status TEXT(20)
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table represents an 'audit' table that captures the production month information EVERYTIME the status is changed. This provides for detail analysis on how long production months are left in a particular status.

Operational Subje t Ar a - 2 f 4 (ERD)

dbo.SEProcessingCodeTypes

CodeType TEXT(10)
ShortDescription TEXT(50)
Description MEMO
UserConfigurable TEXT(1)
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdat Date DATE

This table contains a processing code 'type' field for all of the vanous reference fields on the database. For example, a CodeType of 'CONTRPROS' represents the contract products type. All SEProcessingCodes with this type represent the available contract products.

dbo.SEProcessingCodes

ProcessingCodeID LONG
CodeType TEXT(10)
ShortDescription TEXT(50)
Description MEMO
Required TEXT(1)
TypeLimit LONG
ValueMask TEXT(254)
DisplayOrder LONG
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE
Description1 MEMO

This table contains a record for each unique processing code on the system. For example a processingcodeid=113 and a CodeType="CONTRPROS" has a short description of 'Gas'. This represents the gas contract product code.

dbo.SELocations

LocationID LONG
LocationUNCPath TEXT(254)
LocationName TEXT(30)
LocationDescription MEMO
LocationAutoCompress TEXT(1)
LocationOrder LONG
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE

This table contains record entries for all of the locations (server paths) that are used within the system.

dbo.SEMessages

-0

(CodeType=CodeType)

MessagesSubsystem TEXT(10)
MessagesiD LONG
MessagesType TEXT(10)
MessageDescription MEMO
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE

This table contains record entries for all of the application messages (error, confirmational, informational, etc.).

dbo.SEAudit

AuditID LONG
AuditSys TEXT(30)
AuditEvent TEXT(30)
AuditBy TEXT(16)
AuditDateTime DATE
AuditText TEXT(255)

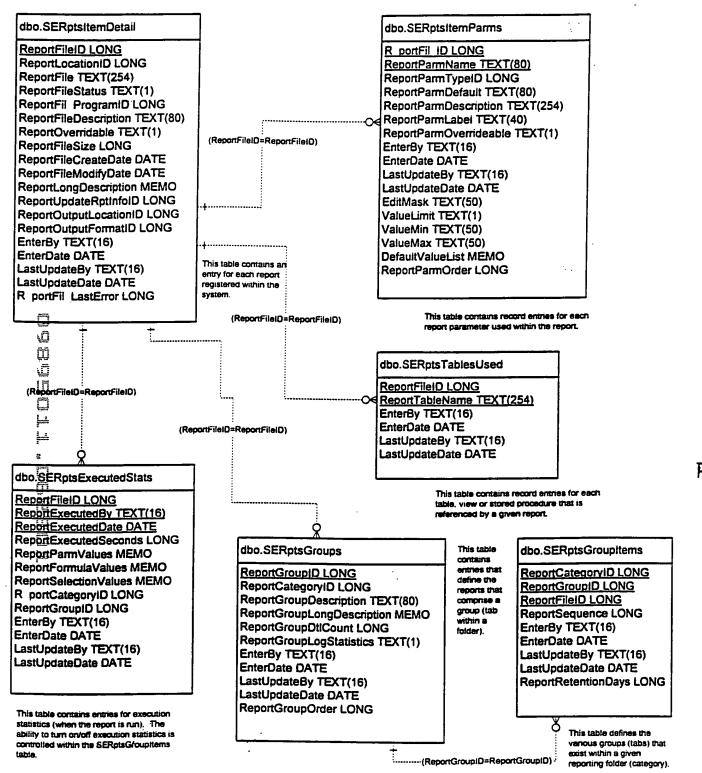
This table contains record entries for auditable events that are captured within the system. Reports are written to review this information. An example is the 'Login' attempts an/or the actualization attempts (by piperfield).

dbo.SElmages

ImageType TEXT(12)
ImageKey TEXT(16)
ImageScreen MEMO
ImageReport MEMO
ImageShortDescription TEXT(60)
ImageDescription MEMO
CreateDate DATE
CreateUser TEXT(16)
LastUpdateUser TEXT(16)

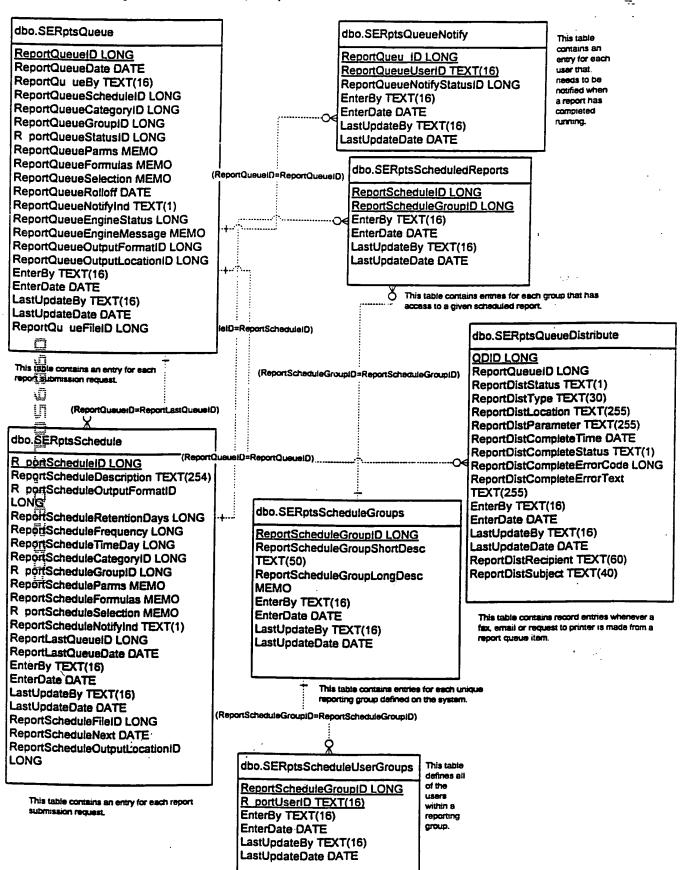
This table contains record entries for all standard-system graphic images. Letterhead logos, screen graphic logos, etc.

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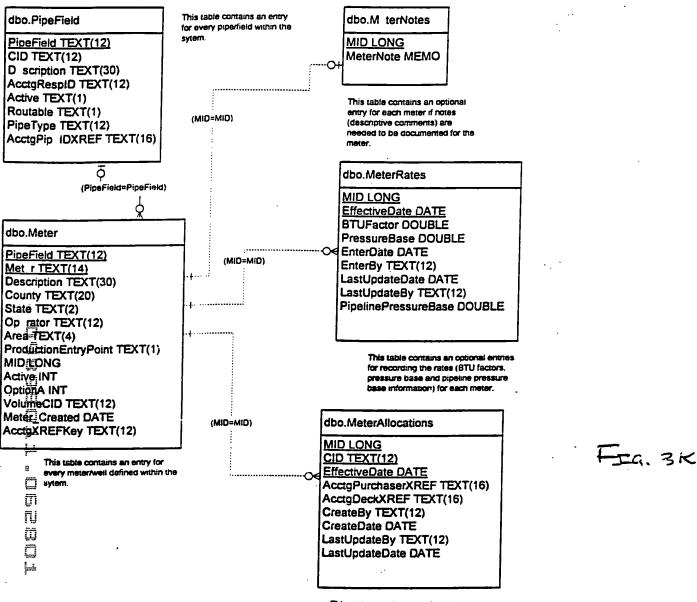
FEG. 3I

Operational Subject Area – 4 of 4 (ERD)



FEG. 35

Pipes & Meters Subject Ar a (ERD)



This table contains an optional entries for recording the allocation information for each specific company. This includes specification of the accounting cross reference fiels (Decks, and purchaser codes).

Pricing Subject Area (ERD)

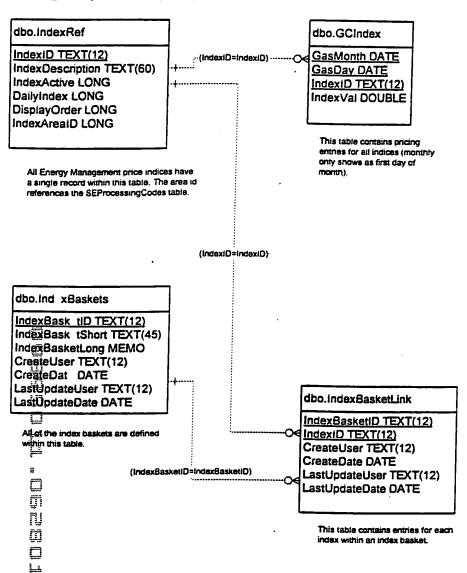
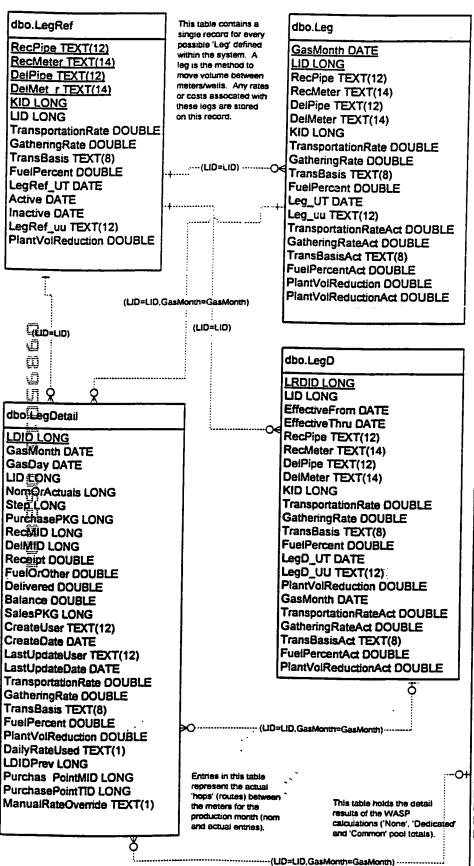


FIG. 3L



A record is created within this table whenever actual volume is routed within a given month. The Gasinv table (pricetype=3) transactions represent purchase/sale legs. For every purchase there is a sale (dual entry). Any costs for volume using the leg are stored on this record.

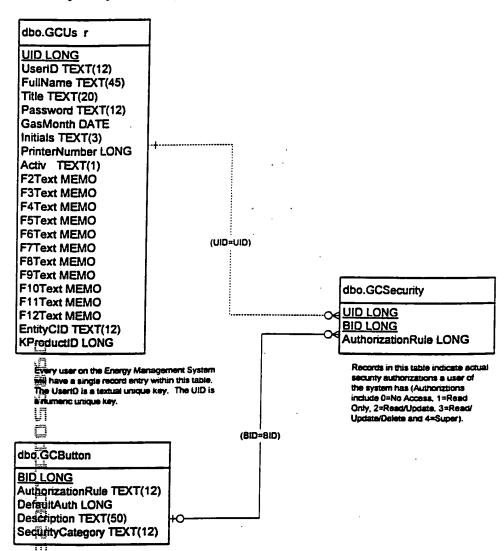
This area of the database provides the location for storing a DAILY leg rate for a specific leg in the system. When calculating costs first the daily rates are checked (here). If none found then the monthly rates are used.

FIC. 3M

dbo.WASPResolvedRouting

ResolvedID LONG GasMonth DATE DeIMID LONG RecMID LONG LID LONG NomOrActual LONG Receipt DOUBLE FuelOrOther DOUBLE Delivered DOUBLE TransportAmount DOUBLE GatheringAmount DOUBLE Amount DOUBLE IncludeInWASP TEXT(10) DedicatedPurchasePKG LONG Price DOUBLE ResolvedReceipt DOUBLE ResolvedIndicator TEXT(1) ResolvedType TEXT(1) ResolvedDelivered DOUBLE EntityCID TEXT(12) KProductID LONG KServiceID LONG ResolvedReceiptAmt DOUBLE ResolvedDeliveredAmt DOUBLE

S curity Subject Area (ERD)



Each record within this table represents a 'Business Function' within the Energy Management System. These records are used to establish security on the system. Each entry is disagonzed as either for 'Employee' or 'Company' in order to differentiate between employee access rules and customer access rules.

FIG.3N

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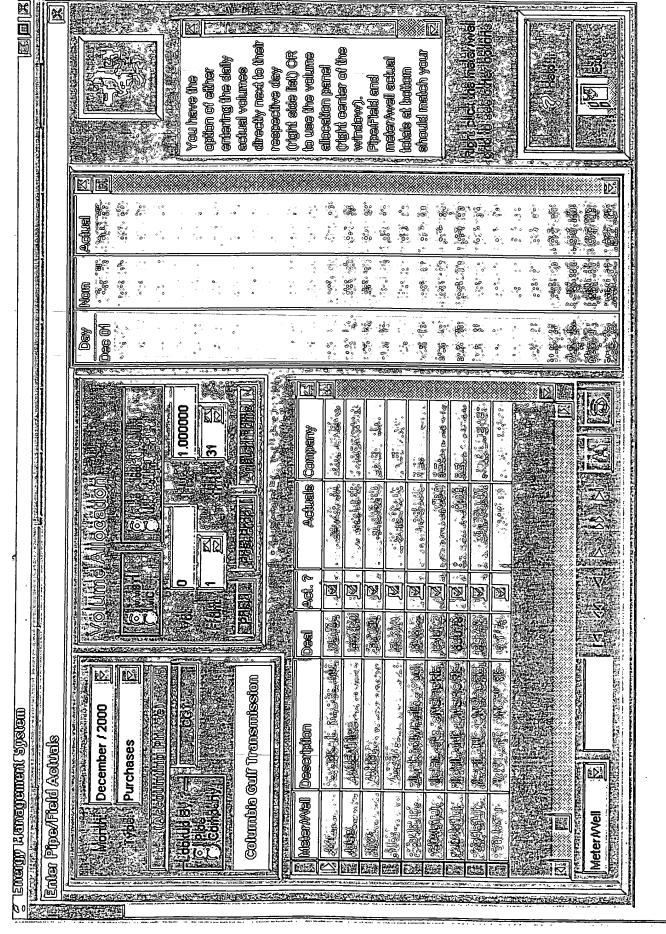
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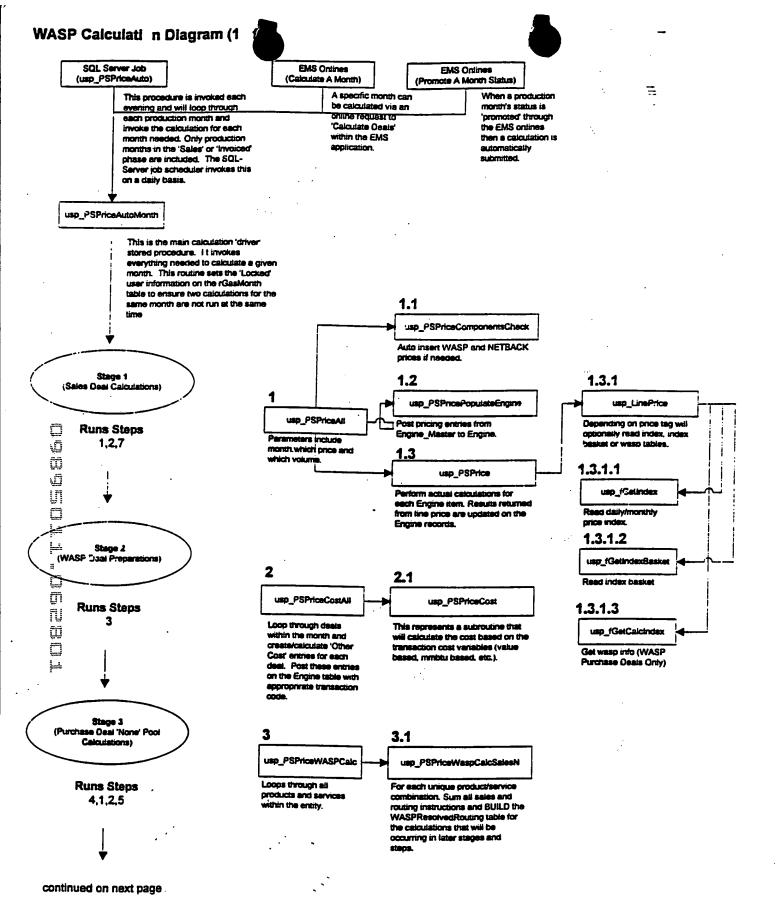


FIG. 5A